

Oligo(lactic acid)₈-Docetaxel Prodrug-Loaded PEG-*b*-PLA Micelles for Prostate Cancer

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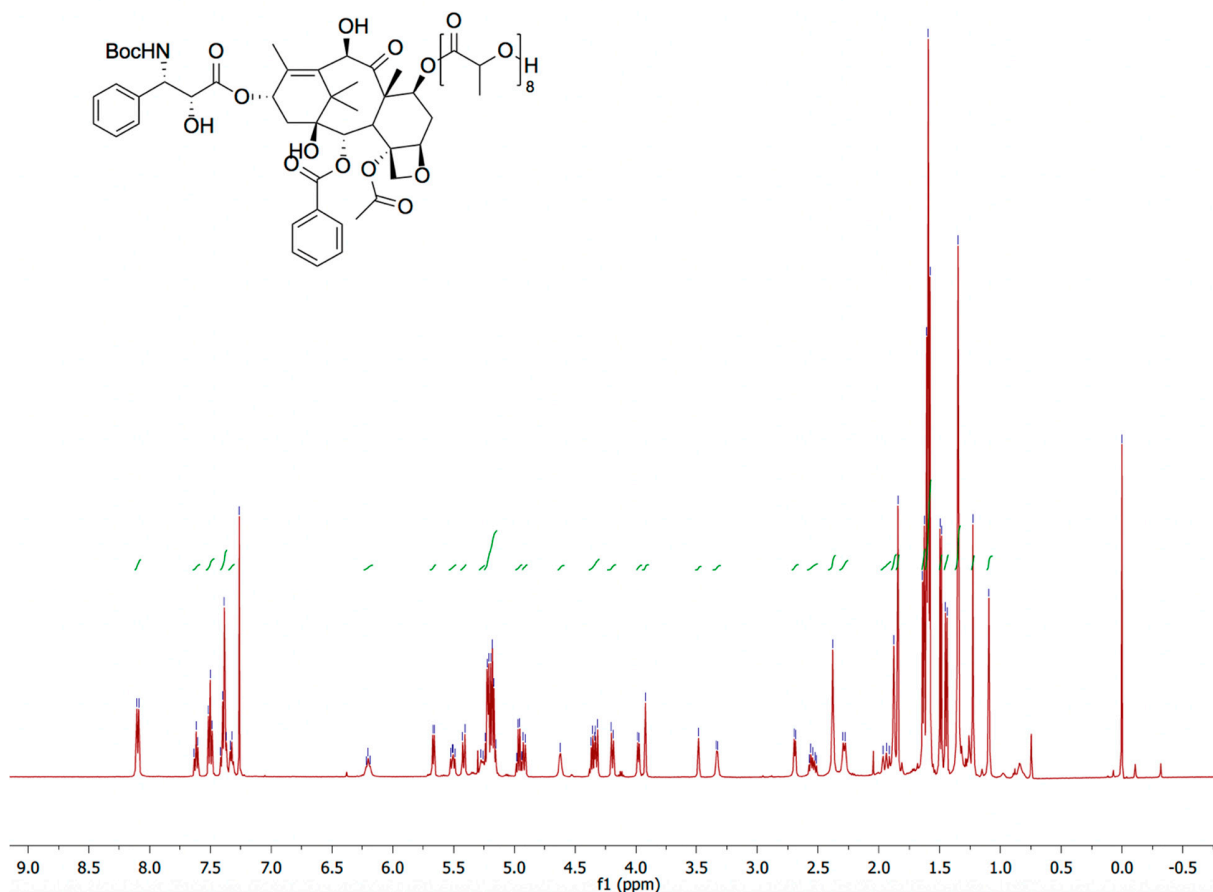
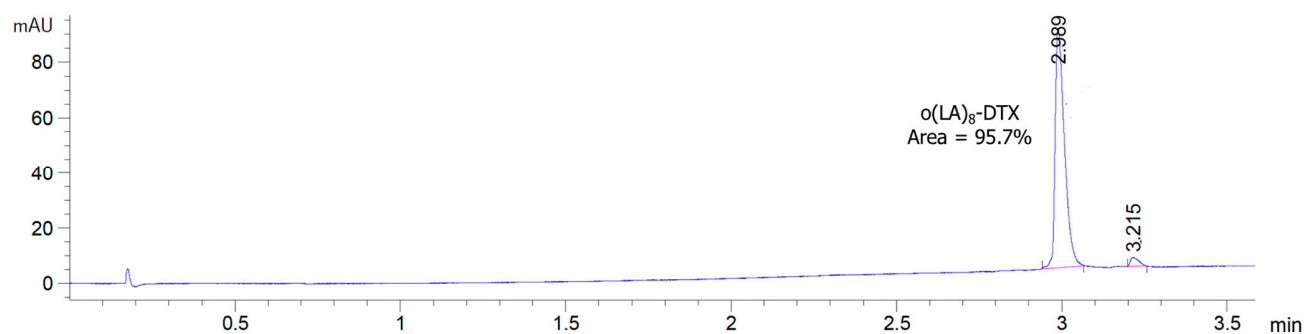


Figure S1. ¹H NMR spectrum of o(LA)₈-DTX measured on a Varian Unity-Inova three-channel 500 MHz NMR spectrometer.



Molecular weight calculated [M+NH ₄] ⁺	1401.5
Molecular weight found [M+NH ₄] ⁺	1401.9

Figure S2. Purity of o(LA)₈-DTX and calculated molecular weight of corresponding peak using LCMS.

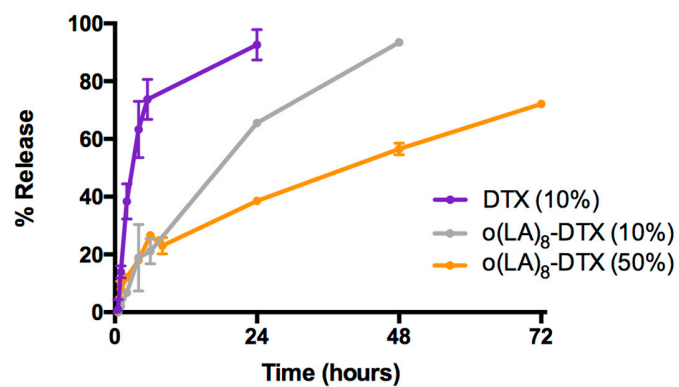


Figure S3. *In vitro* release of DTX or o(LA)₈-DTX from PEG-*b*-PLA micelles in PBS (10 mM, pH 7.4) at 37 °C (n = 3; mean ± SD).

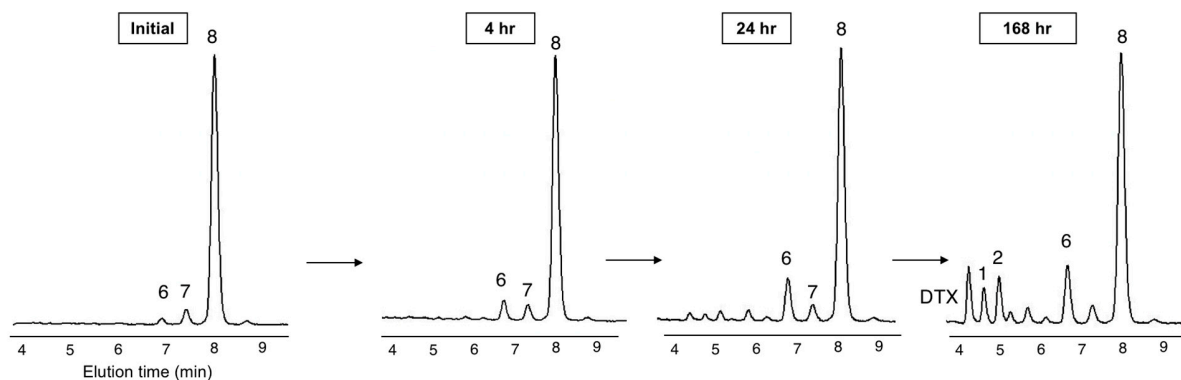


Figure S4. Representative RP-HPLC chromatograms of intramolecular backbiting of o(LA)₈-DTX loaded in PEG-*b*-PLA micelles at 37 °C. Degradation of o(LA)₈-DTX is significantly slower in the nonpolar environment of the micelle core.

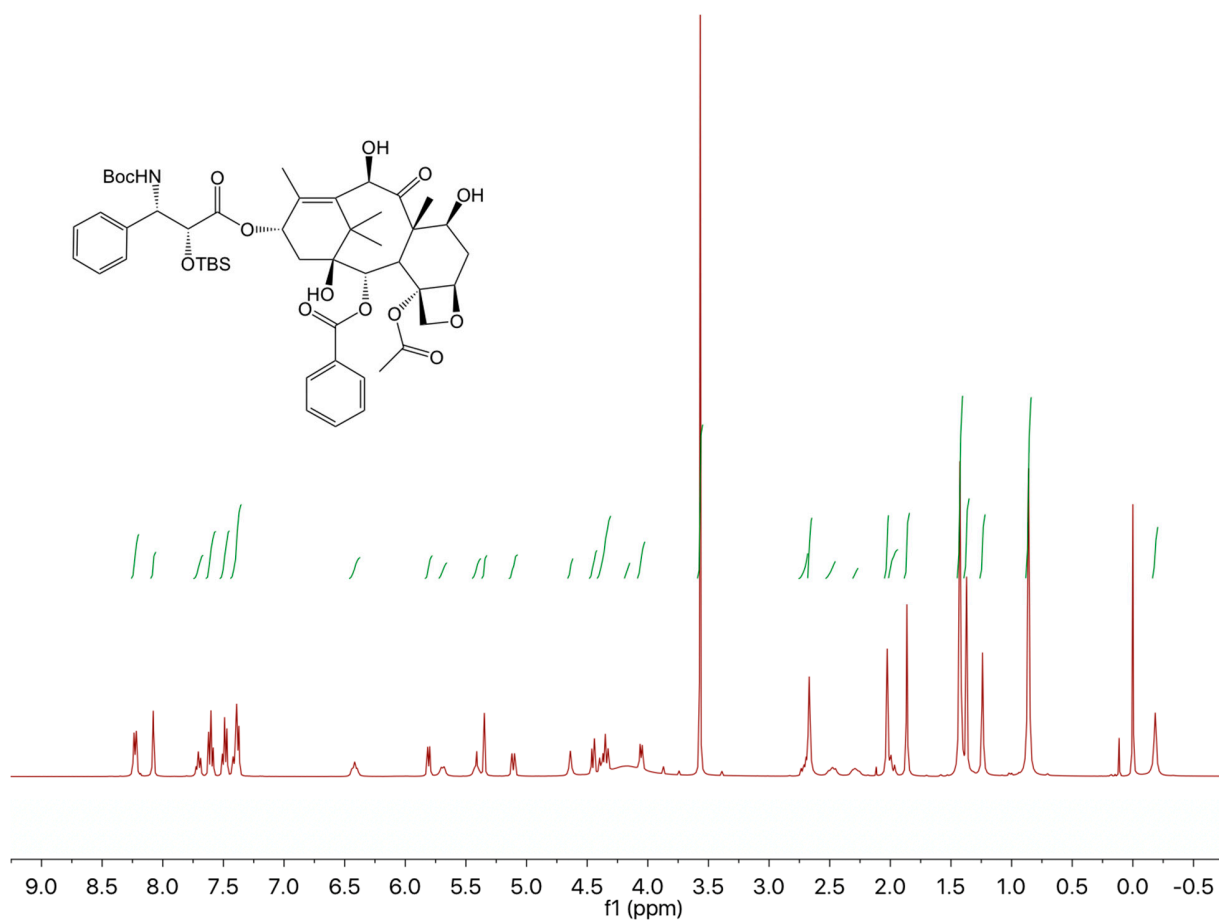


Figure S5. ¹H NMR spectrum of 2'-TBS-DTX.

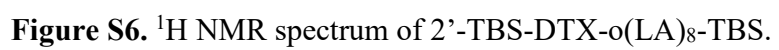


Figure S6. ^1H NMR spectrum of 2'-TBS-DTX-o(LA)₈-TBS.